

## **GRIDSTATS 2.0 USER'S MANUAL**

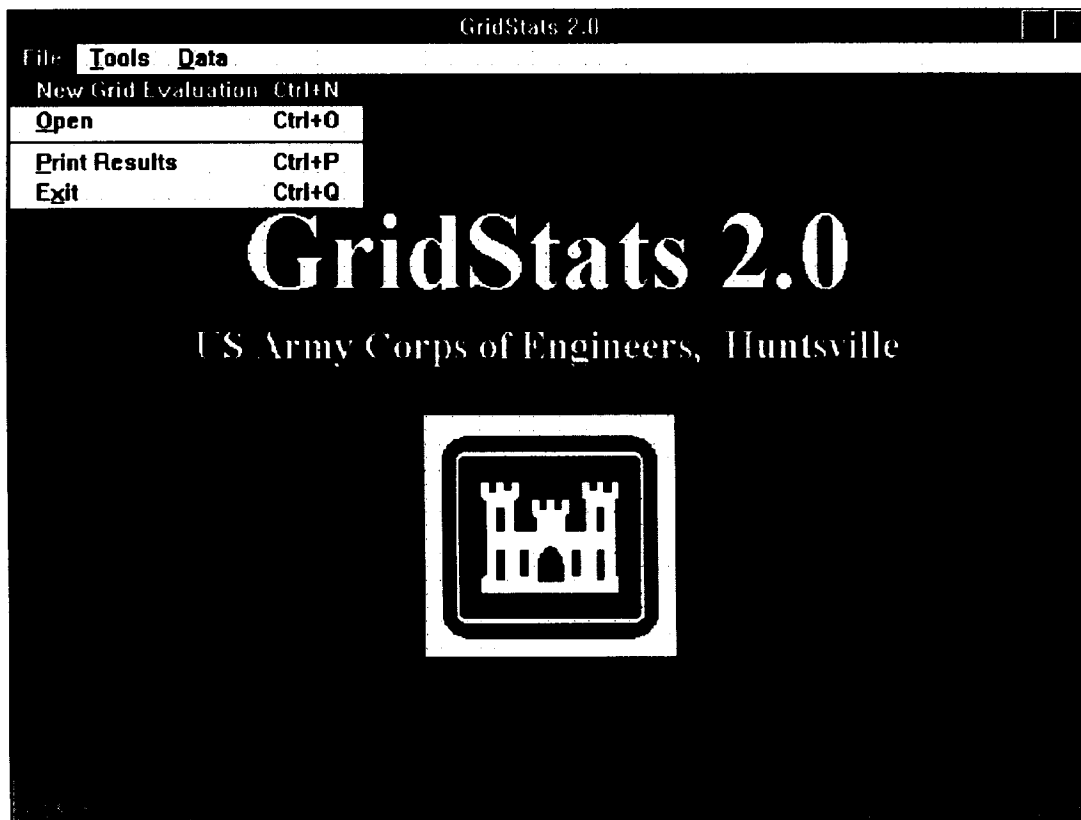
## GRIDSTATS 2.0 USER'S MANUAL

### 1.0 INTRODUCTION

GridStats 2.0 was designed to share data directly with SiteStats 2.0. This allows SiteStats to use the full set of features available in the stand alone version of GridStats. Previous users will recall the limitations of the imbedded version of GridStats. Those hindrances have been removed.

### 2.0 GRIDSTATS EVALUATION SETUP

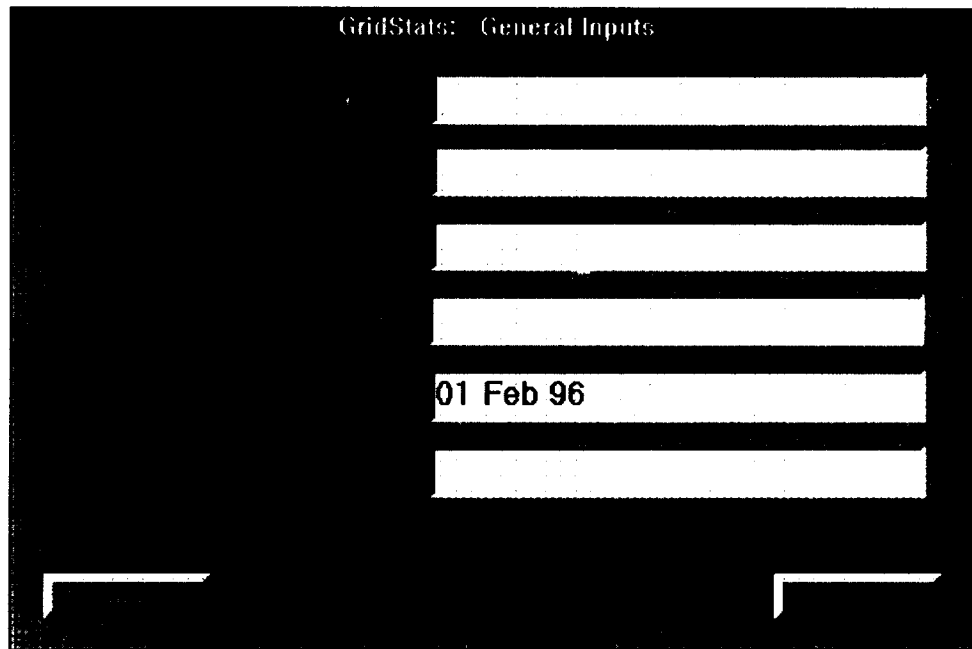
To sample a grid select New Grid Evaluation from the File menu as shown in Figure 1 below.



**Figure 1. GridStats 2.0 Screen**

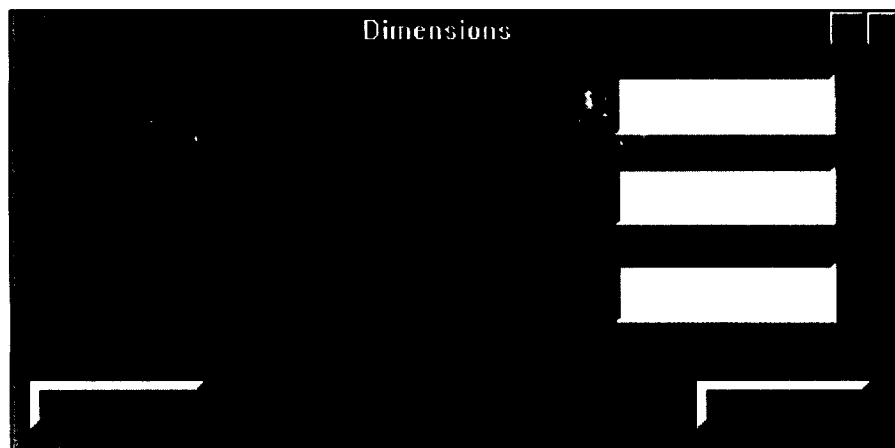
Before sampling begins you are prompted to create a file in which all grid data will be stored. The file should be saved in Microsoft Excel format (.xls).

When prompted, enter the location and number of anomalies for the grid. (See Figure 2.) It is important that you do not leave any text field blank. If information is unknown then type "unknown" or "not available" into the text field. You must enter the number of anomalies. After you have entered the data press the OK button.

A screenshot of a computer screen titled "GridStats: General Inputs". The screen has a black background with white text and input fields. On the right side, there are five horizontal white input fields stacked vertically. The third field from the top contains the text "01 Feb 96". At the bottom left and bottom right of the screen, there are white L-shaped corner brackets.

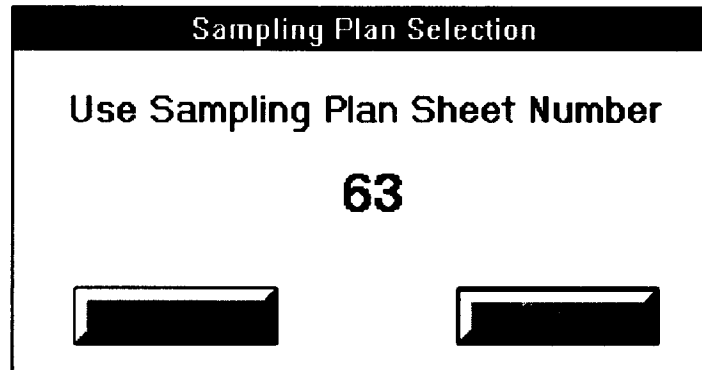
**Figure 2. GridStats: General Inputs Screen**

The grid dimensions and maximum clearance depth are required inputs. (See Figure 3.) Remember to enter the values in units of feet.

A screenshot of a computer screen titled "Dimensions". The screen has a black background with white text and input fields. On the right side, there are three horizontal white input fields stacked vertically. At the bottom left and bottom right of the screen, there are white L-shaped corner brackets.

**Figure 3. Dimensions Screen**

Once the preliminary grid data has been entered, the software will select a grid sampling plan. The plan selection is displayed on the screen as shown in Figure 4. (Please refer to the SiteStats 1.0 User Manual for an explanation of sampling plans.)

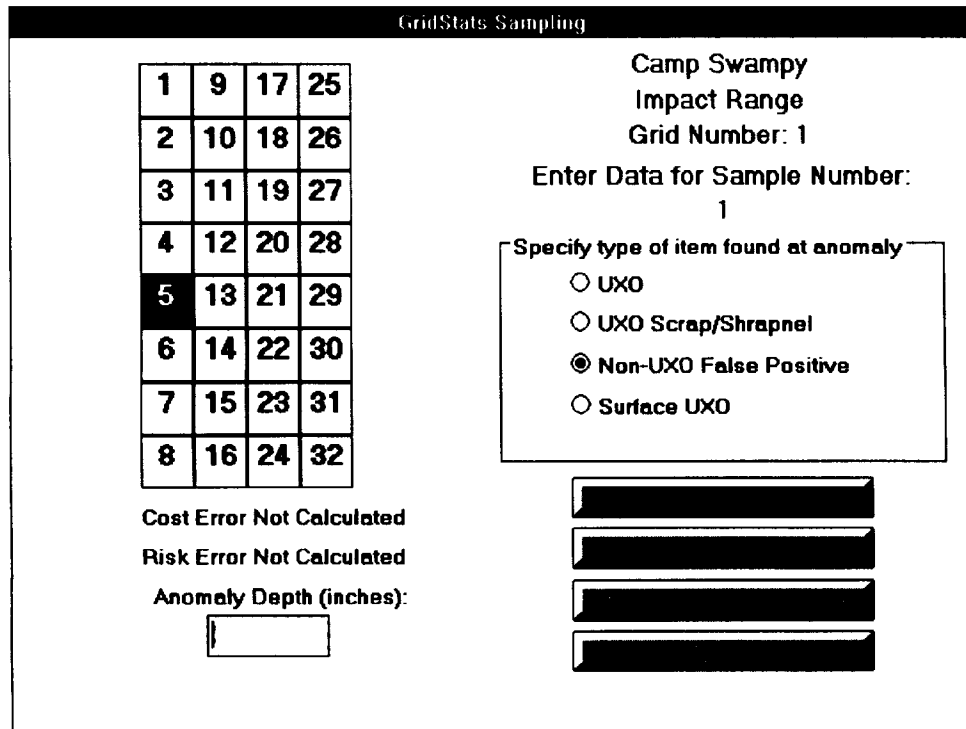


The screen has a black title bar with the text "Sampling Plan Selection". Below the title bar, the text "Use Sampling Plan Sheet Number" is centered. Below this, the number "63" is displayed in a large font. At the bottom of the screen, there are two empty rectangular input fields.

**Figure 4. Sampling Plan Selection Screen**

### 3.0 GRIDSTATS SAMPLING

The GridStats sampling screen (Figure 5) provides the basic work area for recording data.



The screen has a black title bar with the text "GridStats Sampling".

On the left side, there is an 8x4 grid of numbers:

|   |    |    |    |
|---|----|----|----|
| 1 | 9  | 17 | 25 |
| 2 | 10 | 18 | 26 |
| 3 | 11 | 19 | 27 |
| 4 | 12 | 20 | 28 |
| 5 | 13 | 21 | 29 |
| 6 | 14 | 22 | 30 |
| 7 | 15 | 23 | 31 |
| 8 | 16 | 24 | 32 |

Below the grid, the following text is displayed:

Cost Error Not Calculated  
 Risk Error Not Calculated  
 Anomaly Depth (inches):

On the right side, the following text is displayed:

Camp Swampy  
 Impact Range  
 Grid Number: 1  
 Enter Data for Sample Number:  
 1

Below this, there is a box titled "Specify type of item found at anomaly" containing four radio button options:

- ☐ UXO
- ☐ UXO Scrap/Shrapnel
- ☒ Non-UXO False Positive
- ☐ Surface UXO

At the bottom right, there are four empty rectangular input fields stacked vertically.

**Figure 5. GridStats Sampling Screen**

There are 4 types of anomalies to select from. Choose UXO, UXO Scrap/Shrapnel, Non-UXO False Positive or Surface UXO.

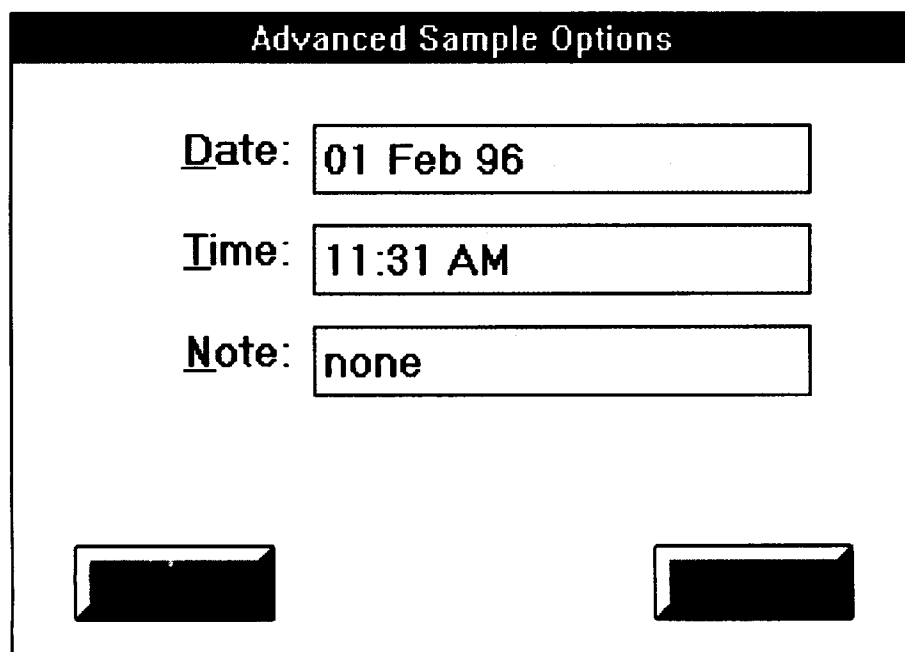
A text field exists for entering the depth of the anomaly. Enter the value in inches.

Click the **Record This Sample** command button to identify the anomaly.

Click the **Stop Sampling** command button to pause and return to the main screen.

Click the **No Anomalies - New Subgrid** command button when no anomalies are present in the current subgrid square.

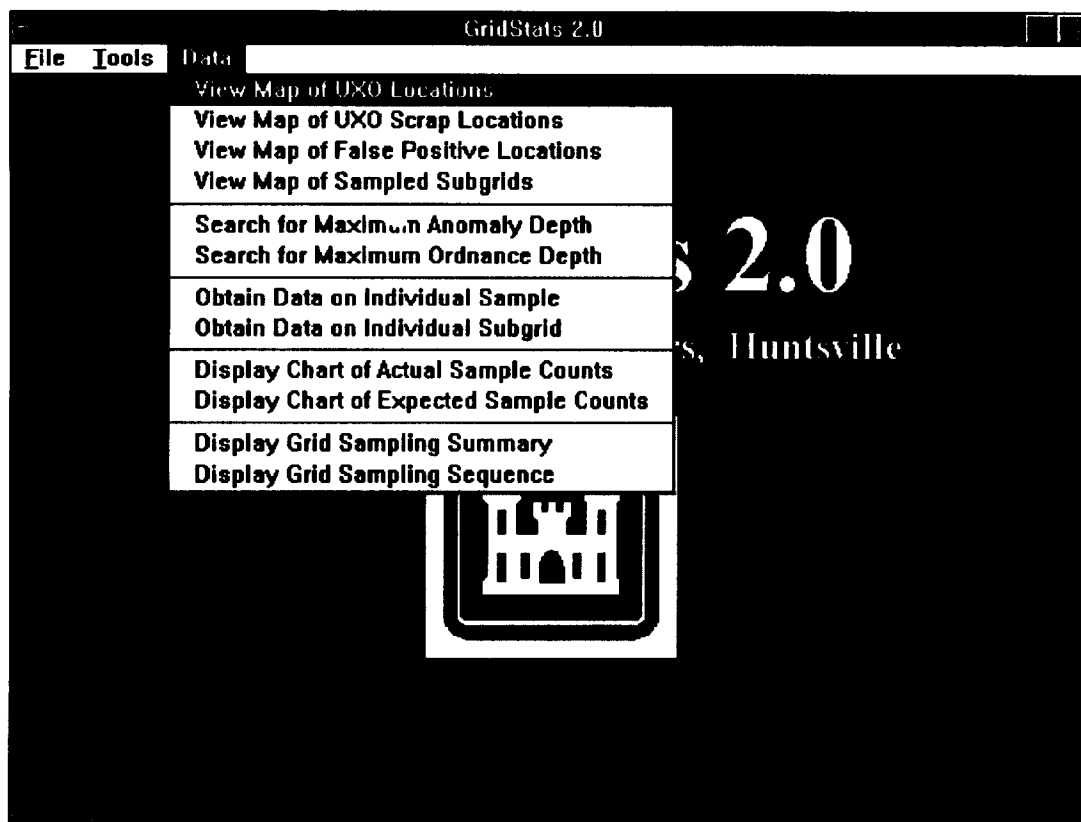
Clicking the **Options** command button allows the user to specify the date and time or make a note for the current anomaly. (See Figure 6.)

The image shows a software window titled "Advanced Sample Options". Inside the window, there are three input fields. The first is labeled "Date:" and contains the text "01 Feb 96". The second is labeled "Time:" and contains the text "11:31 AM". The third is labeled "Note:" and contains the text "none". At the bottom of the window, there are two rectangular buttons, one on the left and one on the right, both of which are currently disabled (grayed out).

**Figure 6. Advanced Sample Options Screen**

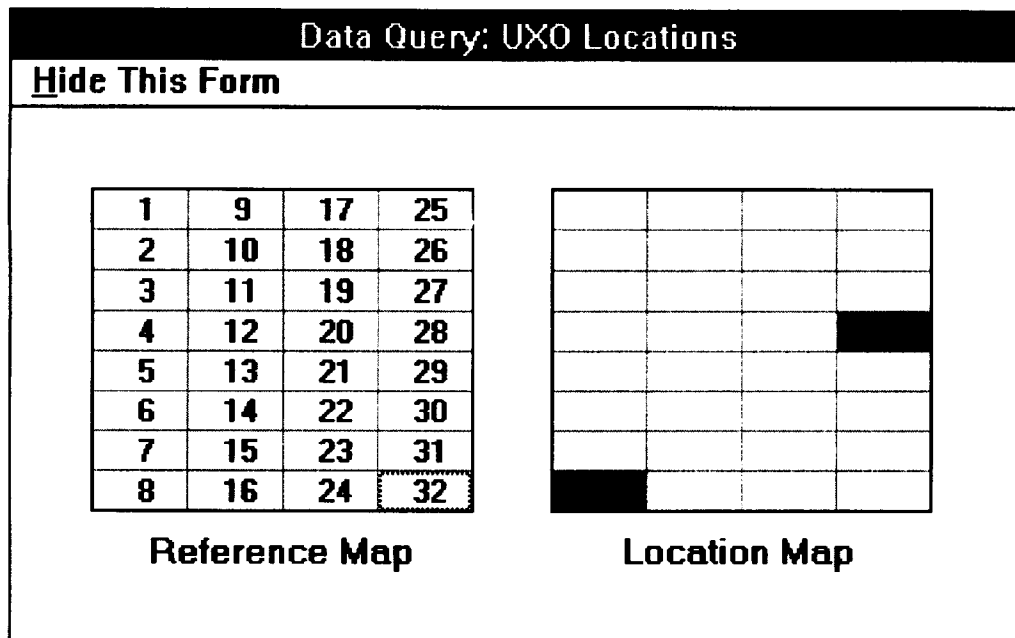
#### **4.0 GRIDSTATS DATA QUERIES**

Several ways of viewing grid data are available from the Data menu on the main screen. Each method of display is described below.



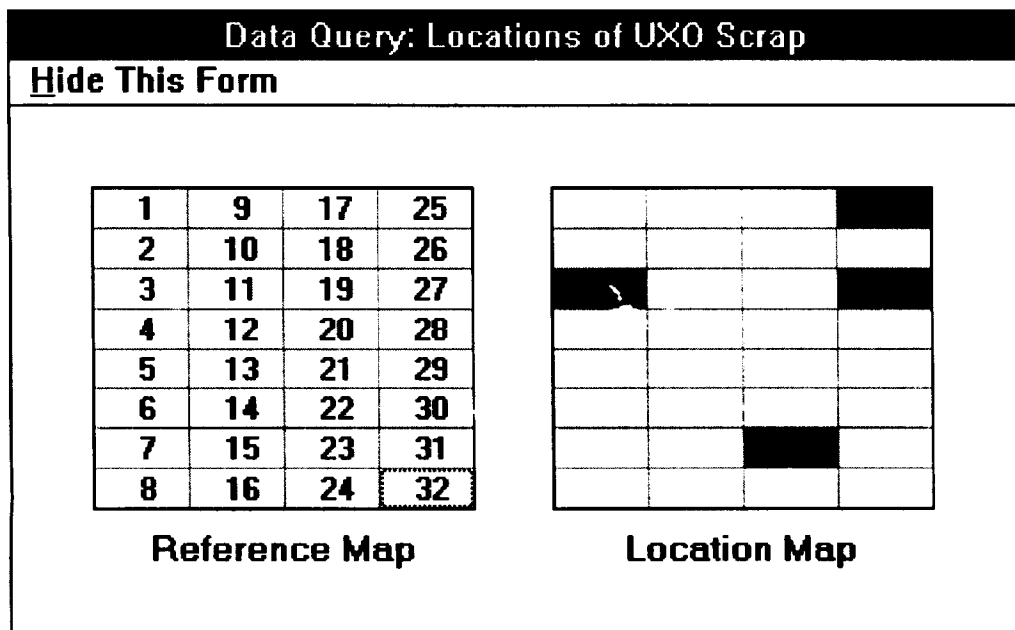
**Figure 7. GridStats 2.0 Screen**

**View Map of UXO Locations:** A map of the grid is displayed with locations of ordnance items marked in red. (Figure 8.)



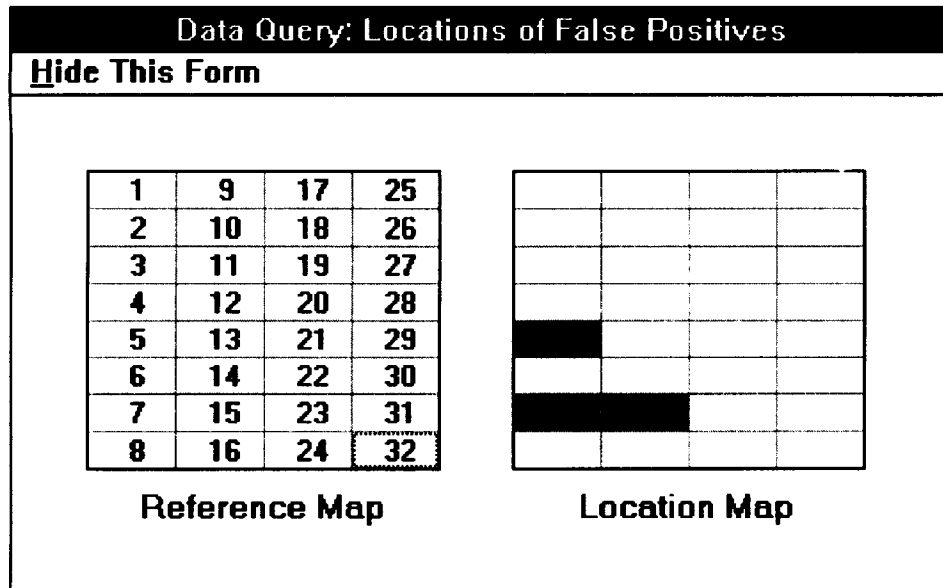
**Figure 8. Data Query: UXO Locations Screen**

**View Map of UXO Scrap Locations:** A map of the grid is displayed with locations of scrap and shrapnel marked in black. (Figure 9.)



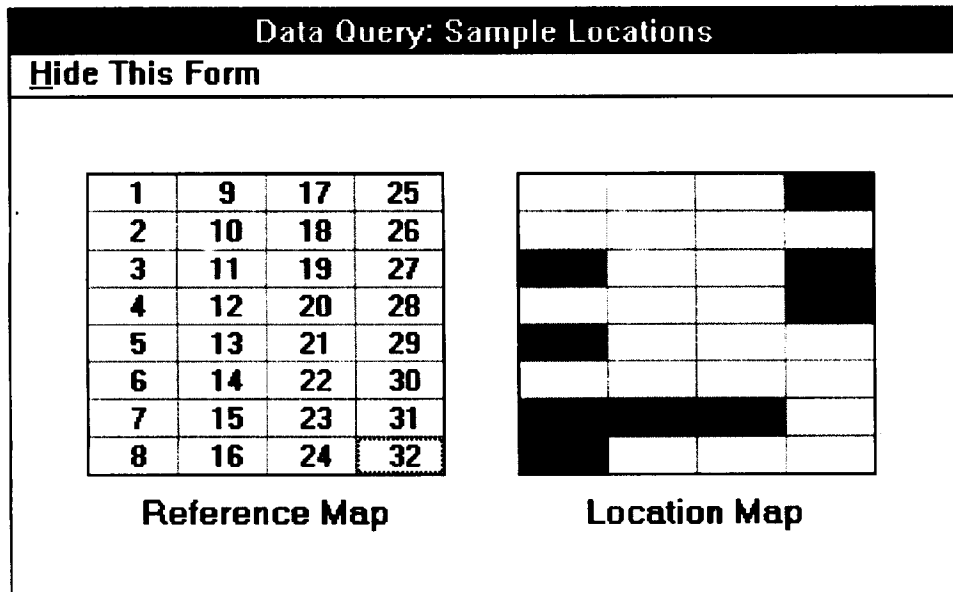
**Figure 9. Data Query: Locations of UXO Scrap Screen**

**View Map of False Positive Locations:** A map of the grid is displayed with locations of false positives marked in blue. (Figure 10.)



**Figure 10. Data Query: Locations of False Positives Screen**

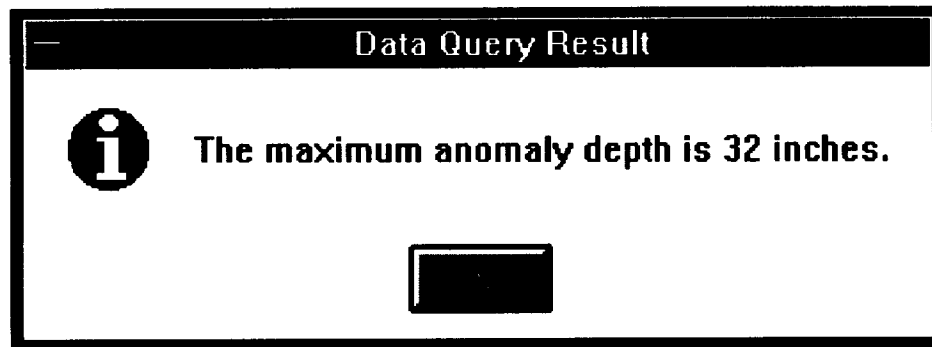
**View Map of Sampled Subgrids:** A map of the grid is displayed with sample locations marked in green. (Figure 11.)



**Figure 11. Data Query: Sample Locations Screen**

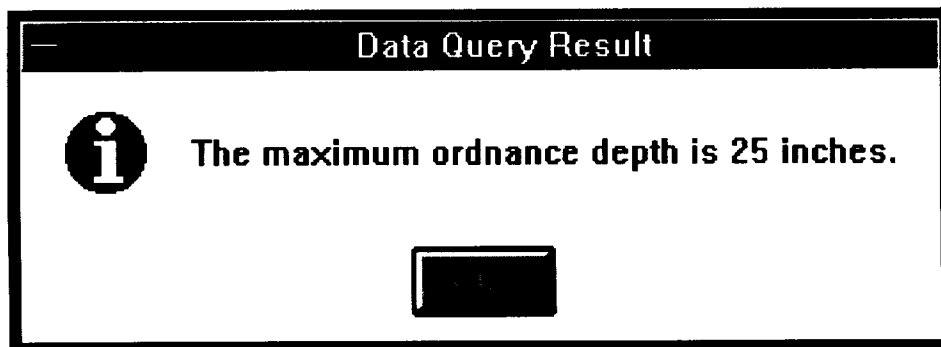


**Search for Maximum Anomaly Depth:** The database is queried and the maximum anomaly depth is returned. (Figure 12.)



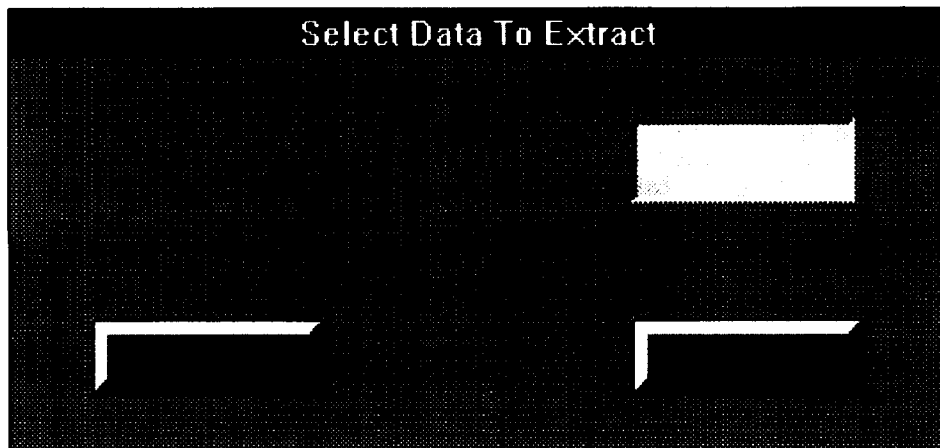
**Figure 12. Data Query Result Screen**

**Search for Maximum Ordnance Depth:** The database is queried and the maximum ordnance depth is returned. (Figure 13.)



**Figure 13. Data Query Result Screen**

**Obtain Data on an Individual Sample:** After entering the sample you wish to view, the data recorded for that sample is displayed. (Figure 15.)

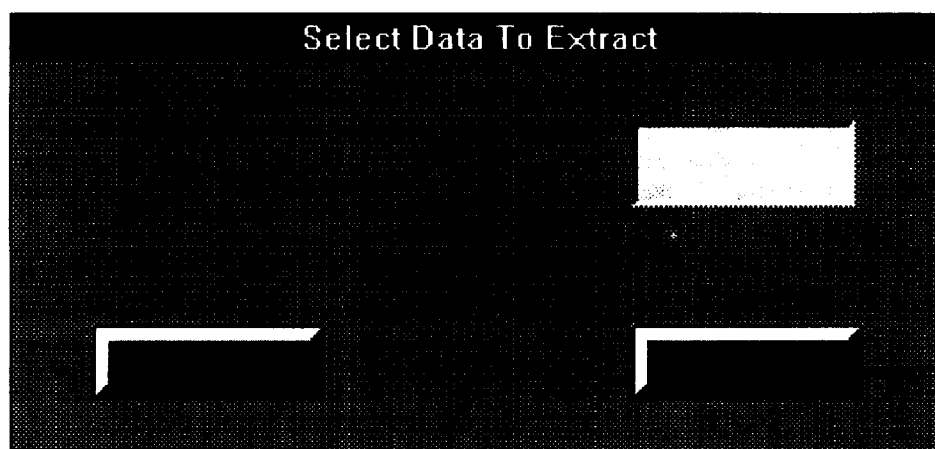


**Figure 14. Sample Selection Screen**

| Data Query Results                     |  |
|----------------------------------------|--|
| <u>H</u> ide This Form                 |  |
| <b>Data For Sample Number 2</b>        |  |
| Sample Collected On 2/1/96 at 11:32 AM |  |
| Sample Location: Subgrid 15            |  |
| Sample Depth: 16.00 inches             |  |
| Type: False Positive                   |  |
| Note: none                             |  |

**Figure 15. Data Query Results Screen**

**Obtain Data on an Individual Subgrid:** After entering the subgrid you wish to view, all data recorded in that subgrid is displayed. (Figure 17.)

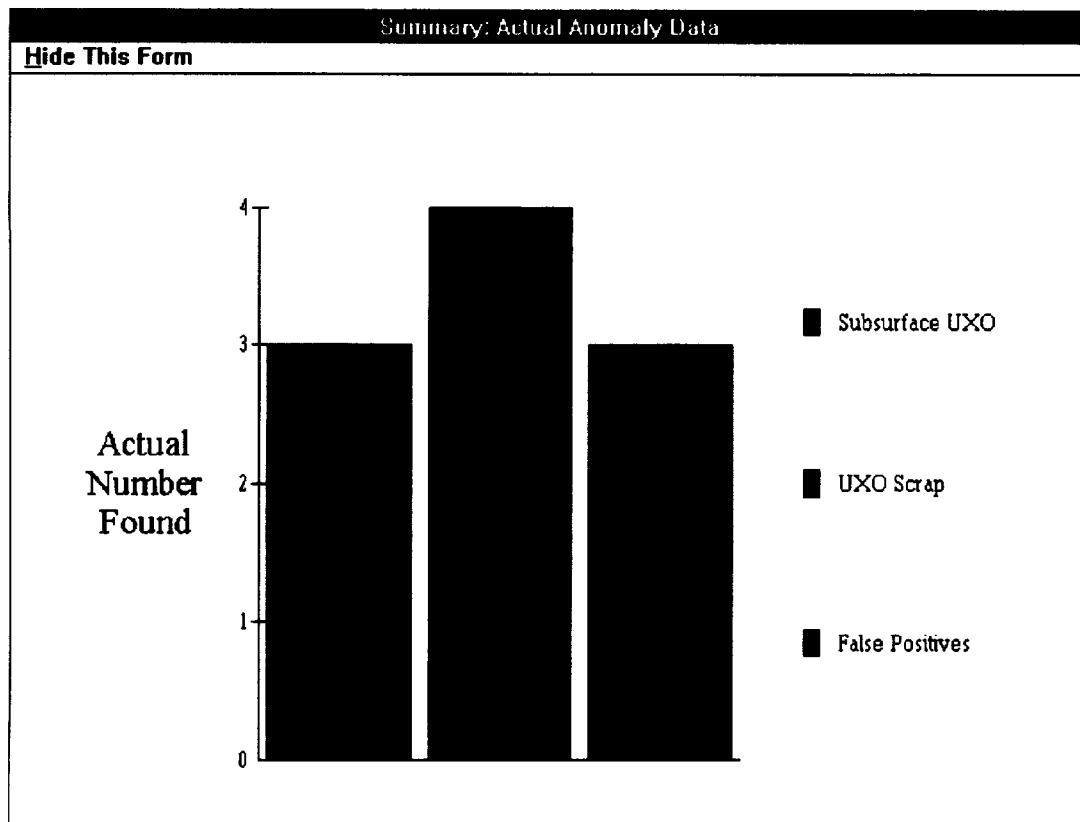


**Figure 16. Subgrid Selection Screen**

| Data Query Results                        |  |
|-------------------------------------------|--|
| <u>Hide This Form</u>                     |  |
| <b>Data For Subgrid Number 8</b>          |  |
| <b>Samples Collected In Subgrid: 1</b>    |  |
| <b>Number of UXO Items Found: 1</b>       |  |
| <b>Number of UXO Scrap Items Found: 0</b> |  |
| <b>Number of False Positive Items: 0</b>  |  |

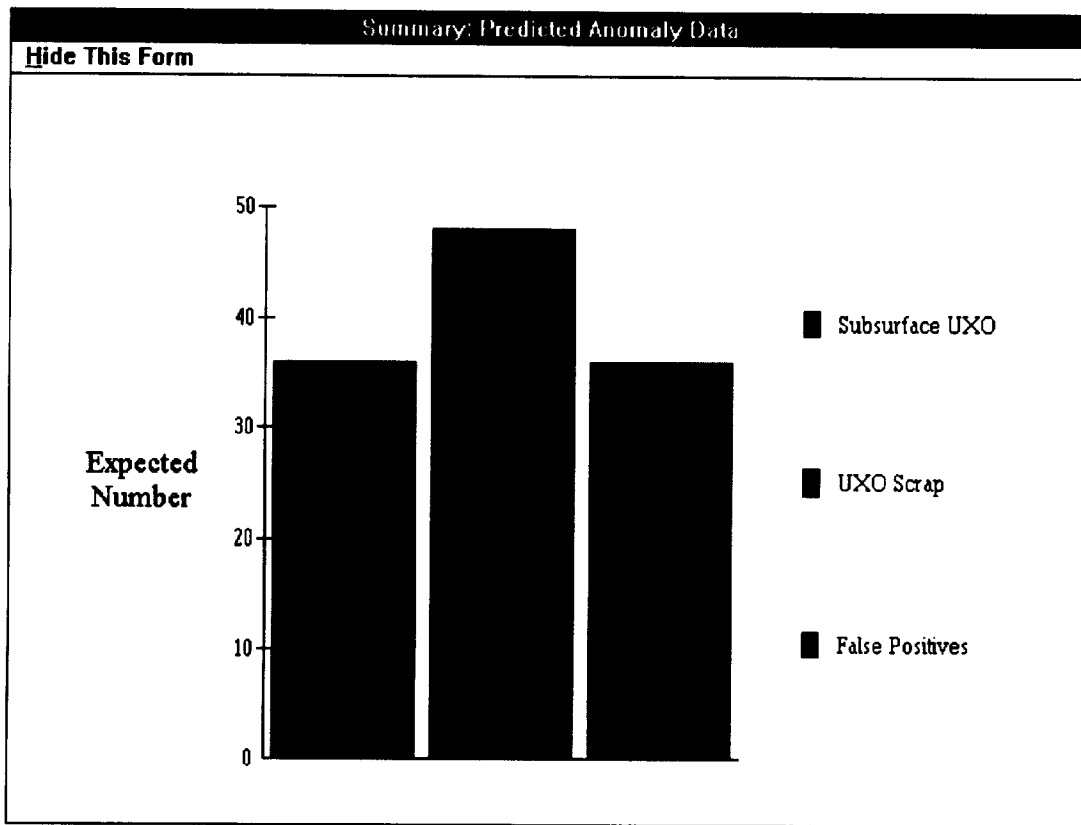
**Figure 17. Data Query Results Screen**

**Display Chart of Actual Sample Counts:** A bar chart summarizes the actual sample data. (Figure 18.)



**Figure 18. Summary: Actual Anomaly Data Screen**

**Display Chart of Expected Sample Counts:** A bar chart summarizes the expected sample data for the grid. (Figure 19.)



**Figure 19. Summary: Predicted Anomaly Data Screen**

**Display Grid Sampling Summary:** A form appears with the summarized data for the grid. (Figure 20.)

| Data Query Results                                                                                                              |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|
| <u>Hide This Form</u>                                                                                                           |  |
| <b>Site Location: Camp Swampy</b><br><b>Sector: Impact Range</b><br><b>Grid: 1</b>                                              |  |
| <b>Number of Samples: 10</b><br><b>Number of False Positives: 3</b><br><b>Number of UXO Scrap: 4</b><br><b>Number of UXO: 3</b> |  |
| <b>Expected Number of False Positives: 36</b><br><b>Expected Number of UXO Scrap: 48</b><br><b>Expected Number of UXO: 36</b>   |  |
| <b>Number of Surface UXO: 0</b>                                                                                                 |  |

Figure 20. Data Query Results Screen

**Display Grid Sampling Sequence:** A form appears with the complete data for each anomaly sampled within the grid. (Figure 21.)

| Sampling Data Sequence |    |                |       |        |          |
|------------------------|----|----------------|-------|--------|----------|
| <u>Hide This Form</u>  |    |                |       |        |          |
| 1                      | 5  | False Positive | 12.00 | 2/1/96 | 11:31 AM |
| 2                      | 15 | False Positive | 16.00 | 2/1/96 | 11:32 AM |
| 3                      | 28 | UXO            | 8.00  | 2/1/96 | 11:32 AM |
| 4                      | 27 | UXO Scrap      | 22.00 | 2/1/96 | 11:32 AM |
| 5                      | 28 | UXO            | 25.00 | 2/1/96 | 11:32 AM |
| 6                      | 3  | UXO Scrap      | 18.00 | 2/1/96 | 11:32 AM |
| 7                      | 7  | False Positive | 32.00 | 2/1/96 | 11:32 AM |
| 8                      | 23 | UXO Scrap      | 13.00 | 2/1/96 | 11:32 AM |

Figure 21. Sampling Data Sequence Screen